

SPAWAR TECHNICAL MANUAL MANAGEMENT PROGRAM (TMMP)



SPAWAR 04L1



Enterprise Vision

- **Elimination of Stovepipes Through Structured Data**
 - International Standards Organization (ISO)
 - World-Wide Web Consortium (W3C)
 - Workflow Management Coalition (WfMC)
 - <http://www.aiim.org/wfmc/mainframe.htm>
 - Other Commercial/industry Standards
- **Horizontal Integration of Information**
- **TD Platform Independence**



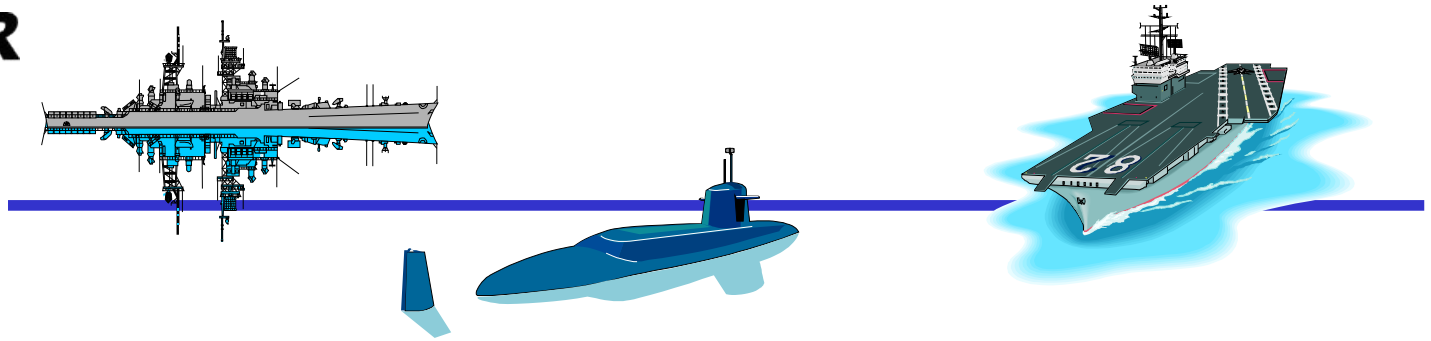
TMMP

- **Mission:** Integrate information technology and data processes to reduce infrastructure and improve C4ISR logistics documentation readiness
- **Guidance:** SPAWARINST 4160.3 sets forth the responsibilities, policies, and required actions for the life cycle management and control of Technical Manuals (TMs). Detailed guidelines for TM management is covered in E0005-AC-HBK-010, SPAWAR's TMMP, Operations and Life Cycle Support Procedures define roles and responsibilities of the SPAWAR TMMP both at SPAWAR Headquarters and field activity levels.



TMMP

- **Currently over 7000 active publications managed**
- **Expect average shelf life of 5-15 years**
- **We must be able to deliver to users in a variety of formats**
 - Word, PDF, Paper
 - SGML (Submarine community is committed to this)
 - As data within software segments
- **An integrated approach should:**
 - Define a migration strategy that leverages new technology (XML)
 - Not move so rapidly that the huge investment in current technical data is left behind



SPAWAR TMMP FUNCTIONS NAVAL SYSTEMS DATA SUPPORT ACTIVITY

- **LIFE CYCLE & ARCHIVE TRACKING**
- **DEVELOPMENT & MAINTENANCE INFRASTRUCTURE & TRAINING SU**
- **FLEET SUPPORT**
- **INVENTORY MANAGEMENT**
- **PRINT ON DEMAND COORDINATION**
- **SUPPORT FOR ILO SITES**
- **TM OUTFITTING**



INPUTS

TECHNICAL LIBRARY MGM'T SYS FILES

CONFIGURATION DATA MANAGER

FILES

FLEET FEEDBACK

REPORTS/DATA

ACQUISITIONS MANAGER

INTEGRATED LOGISTICS OVERHAUL DATA

SHIPYARDS

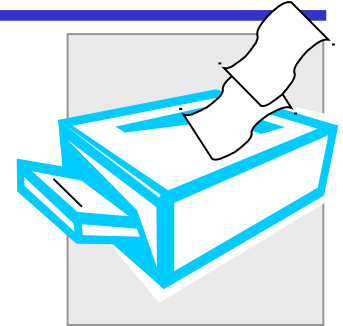
NAVICP DATA

FIELD ACTIVITIES

SPONSORS

SPAWAR

Technical Data Management Information System



OUTPUTS

PUB DATA FOR TLMS

INDICIES OF TECHNICAL PUBLIC

RASTER DATA

DISTRIBUTION LISTs & LABELs

DATA TO NAVICP

DATA FOR CD-ROM

PUBLICATION NUMBER ASSIGN

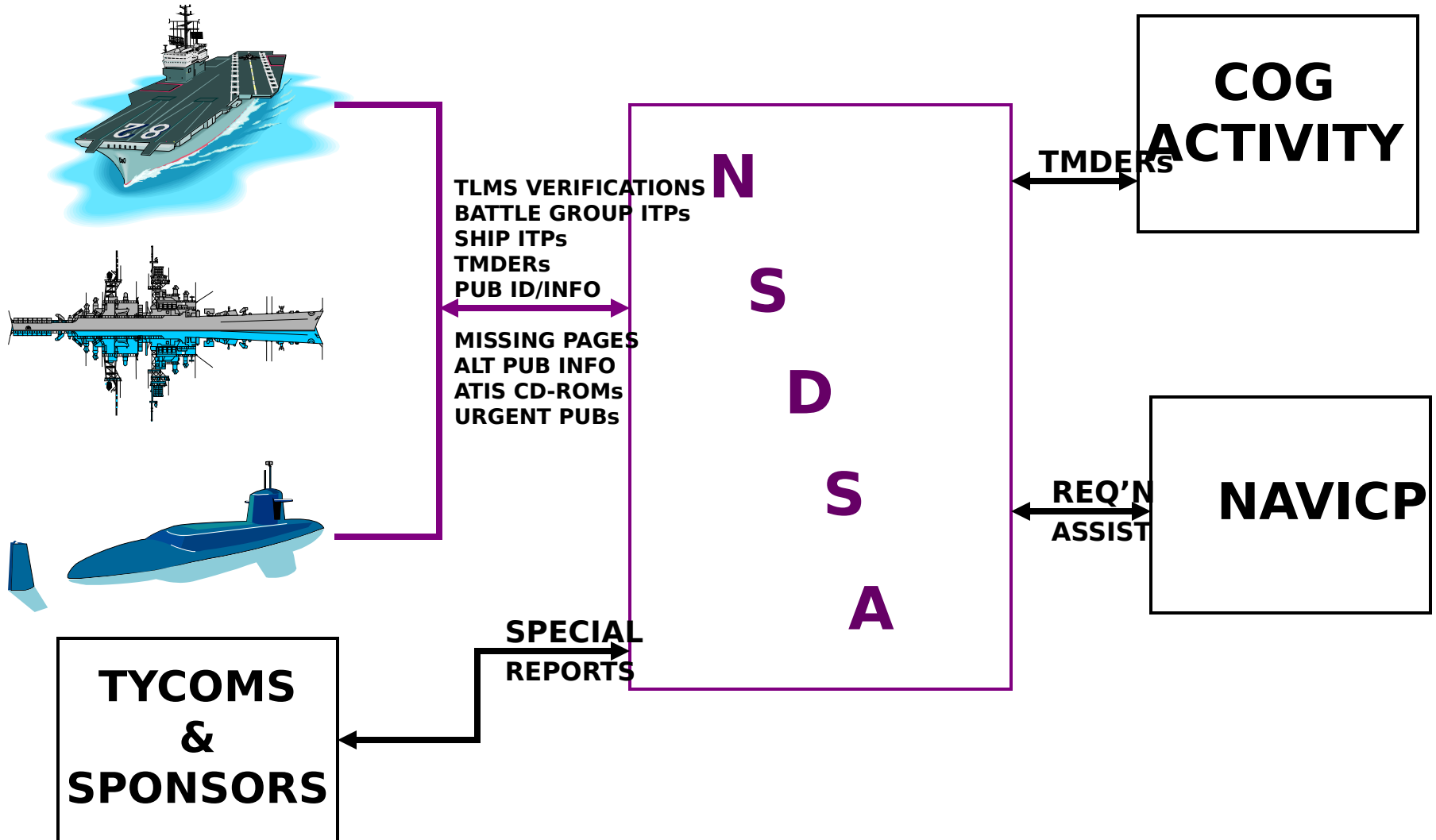
SPECIAL REPORTS

CD-ROM NUMBERS





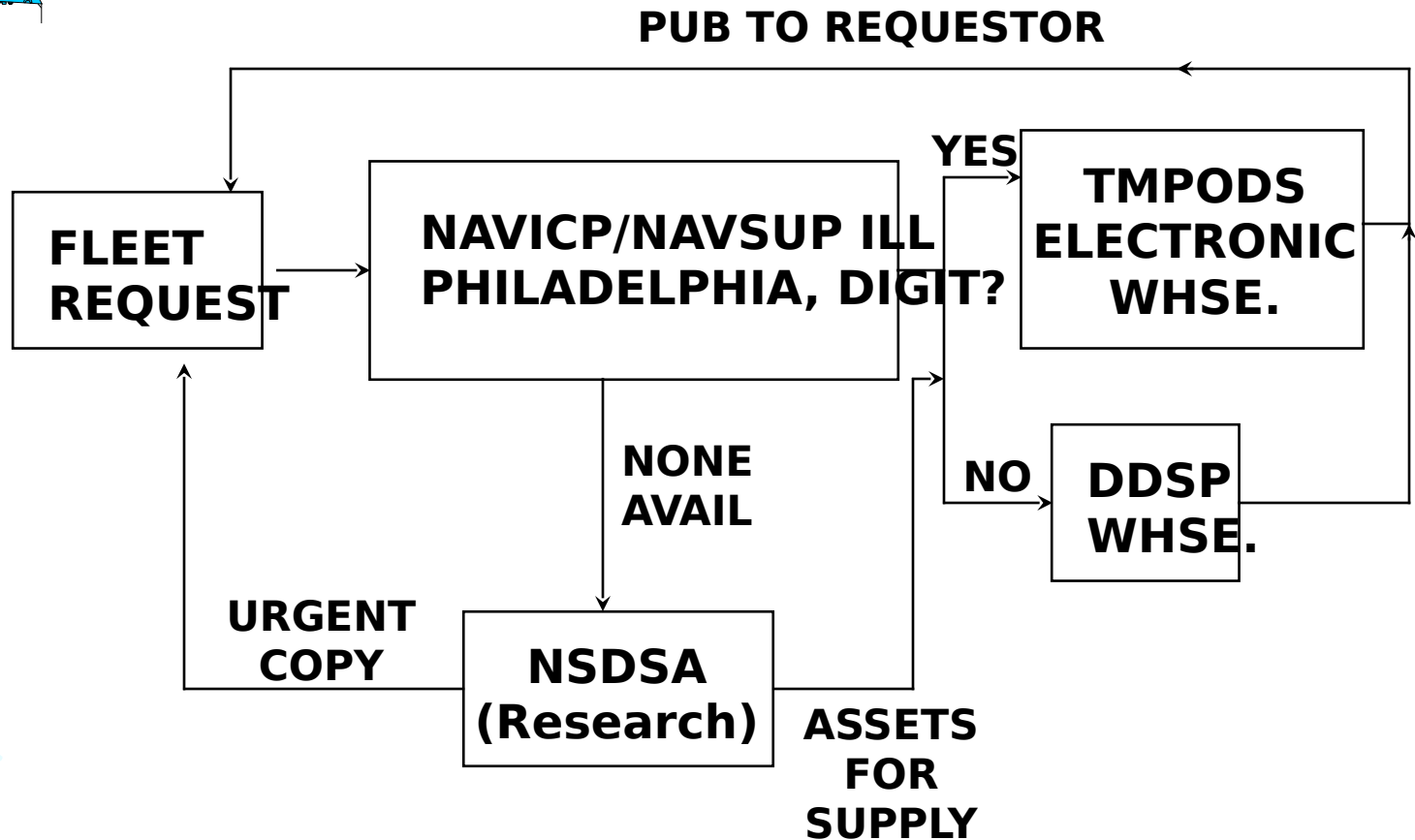
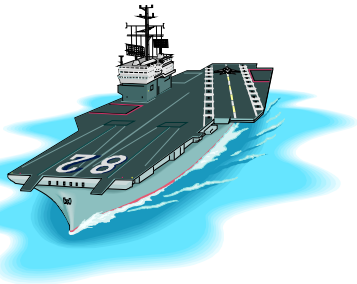
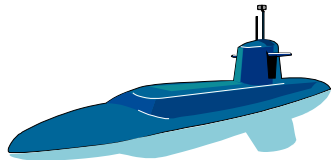
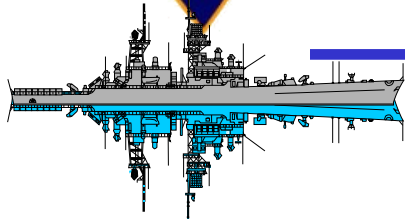
SPAWAR TM FLEET SUPPORT



SPAWAR



TYPICAL REQUISITION FLOW





TECH PUB LCC MANAGEMENT

DEVELOPMENT

* PROVIDE ACQUISITION
SPECs AND
GUIDANCE

* INITIALIZE TDMIS
(ASSIGN PUB#)

* SEND BASELINE

DISTRIBUTION LIST

* PUB DATA TO NAVICP

* RECEIVE NSN

* INITIAL SHIP APPLICABILITY

* ACQ MANAGER
SUPPORT

DELIVERY

* CONFIRM SHIP
APPLICABILITY

* UPDATE TDMIS

* UPDATE SUPPLY
SYSTEM

* NAVICP LIAISON

* CONVERT TO DIGITS

POST DELIVERY

* INVENTORY MGM'T

* REPLENISHMENT

* NAVICP LIAISON

* TMPODs COORDINATION

* CUSTOMER SERVICE

* DEFICIENCY TRACKING

* PUB MANAGER SUPPORT

* ADD TO ITP

RETIREMENT

• PURGE INVENTORY

* MAINTAIN RECORDS

* HOLD ONE COPY

* EMS SUPPORT

* REACTIVATION



Develop TM

- **TM Development is Responsibility of Program Manager**
- **04L Identifies Data Standards Based on Policy**
 - Navy Digital Data Policy (Signed Nov 2 by ASN/RDA)
- **04L/NSWC PHD Provides Publishing Capability As Required**
- **04L/NSWC PHD Provides Batch Conversion from SGML to XML**
- **Publishing Tools**
 - BladeRunner Pilot Effort
 - *Information Manager (formerly TEXCEL IM) -- NASEA approach
 - Facilitates entity/object-level management
 - SGML/XML environment
 - JCALS implementation (possible resources via JCALS)



Publish TMs

- **Contractors Deliver Data IAW Standards/DTDs**
- **NSWC PHD Provides TM Support**
 - TMINS Applicability to Objects ??
- **Structured Information Standards**
 - SGML
 - XML
 - XSL (possibly CSS2)
- **Object-level Publishing**
 - “Book” Is Arbitrary
 - No Page Change Process (IAW digital data policy)
- **Select From Existing DTDs**
 - Enterprise Registry?



Distribute TMs

- **Accessible by Fleet Personnel Using Web Clients.**
- **Need Vehicle That Provides Security**
 - C2 for Unclassified
 - SIPRNET for Classified Information
- **Access control at document level**
 - Based on Distribution Statement
 - ITAR, Military Critical, Proprietary Data, etc.
- **Information Accessible at Object Level**
- **Determine Applicability of Existing Systems**
 - ATIS
 - TMPODS
 - TMINS (What are the evolving meta-data needs)
 - NAVICP Stock/Ordering/Naval Logistics Library

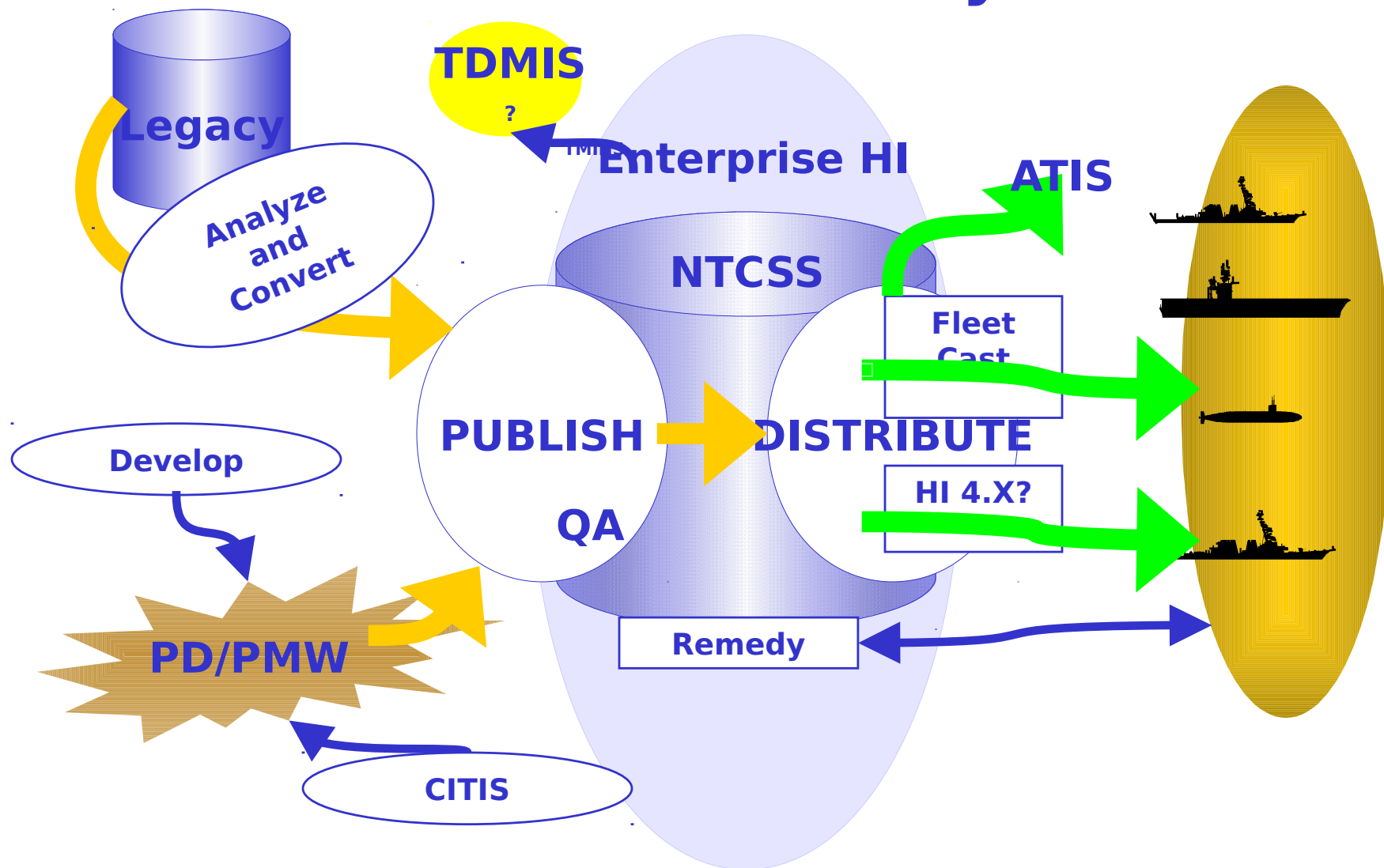


Distribute TMs -- Continued

- **Portal and QA Requirements**
 - KPP –
 - Validating Parse of XML
- **Server Senses Client Browser Version**
 - XML where capable
 - XML to HTML (XHTML) Conversion if Not
- **XSL Style Sheets for Each Document Type**
 - Possible user choice in delivery form
 - Detailed/Overview
 - Browser (desktop/PDA)
 - Search Capability
- **QA for XML Provided by Validating Parser**
 - Based on DTD



Technical Manual Fleet Delivery





TMMP Metrics

TASK	FY 01				FY 01 TOTAL TO DATE
	1 ST Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
Technical Publications					
Total technical manuals (basics and Changes)	10,217				10,217
Technical Assistance - Phone Calls, faxes, emails	498				498
ILO Products Issued	28				28
Data Products Provided - ITPs	6				6
Fleet Tailored Technical Data (FTTD) Data Files Processed in TDMIS	42				42
Stop work avoidance pubs sent	0				0
Ship Pub Requests/inquiries	68				68
Pubs/Pub Changes Converted To ATIS	90				90
TMDERS/ACNs Received & Processed	3				3
TMCRs Developed	2				2
New Pub Numbers Issued	169				169
Print Actions/TM Basics & Changes	18				18



SPAWAR TM Digitalization

Technical Manuals:	NAVSEA	NAVAIR	NAVSUP	SPAWAR	TOTAL
Number of technical manuals in active inventory	59,300	19,600	151,275	7,700	237,875
Number of technical manual pages in active inventory	14,825,000	5,880,000	45,382,500	19,635,000	85,722,500
Number of technical manuals pages to be digitized	12,500,000	1,830,000 Paper to PDF; 2,700,000 Raster to PDF;	4,193,100	277,440	22,480,540

The following table provides the approximate quantities of technical manuals and quantities of pages that have already been converted to digital formats.

Technical Manuals Converted:	NAVSEA	NAVAIR	NAVSUP	SPAWAR	TOTAL
Number of TM pages in raster format	6,000,000	2,700,000 See Note 2	0	849,915	9,549,915
Number of TM pages in SGML format	1,457,500	177,450	0	93,330	1,728,280
Number of TM pages in PDF format	0	1,350,000	0	?x255 pg/manual	1,350,000 +
Number of TM pages already converted to digital formats	7,457,500	4,050,000 See Note 2	0	943,245	12628195 +



Engineering Drawings

- **AutoCAD Developed and Controlled by ISEA**
- **90% are for SID**
- **Drawing Repositories**
 - SSC-SD
 - SSC-CH
 - SSC-JC
 - JEMICS



Engineering Drawings

Total number of existing active drawings	300,000
Total drawings in either paper or aperture card format	100,000
Engineering Drawings already Digital	
1. Digital Drawings in JEDMICS	200,000
2. Digital but not in JEDMICS	0
TOTAL digital engineering drawings	200,000
Number of total drawing images to be converted to digital formats	
1. Paper to Level 2 raster	0
2. Paper to Level 5 vector (enhanced vectorization)	0
3. Paper to Level 6 vector (CAD perf)	0
4. Paper to PDF	0
5. Aperture card to Level 2 raster	200,000
TOTAL to be converted to digital	200,000
Number of total dwg images already digital but needing reindexing or format conversion	
1. Index or reindex	150,000
2. Format conversion	0



Questions ?